Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-18-30** **Date: 06-02-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads Drains at Chikkasandra Village in Ward No 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west), Karnataka Rural Infrastructure Development Limited, No.280, 59th Cross, 17th C Maain Road, 3rd Y Block Rajaji nagara, Bangaluru-560010
Customer's Reference	:	EE/DD/W.O/545/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-02-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-02-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	178	178	1.2	98.8	90-100
3	20 mm	7145	7323	48.8	51.2	30-70
4	10 mm	5699	13022	86.8	13.2	10-35
5	4.75 mm	1705	14727	98.2	1.8	0-5
6	Pan	273	15000	100.0	0	---

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ಬೃಹತ್ ಬೆಂ.ಮ.ನ. ರಸ್ತೆ, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-18-30** **Date: 17/03/2020**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads Drains at Chikkasandra Village in Ward No 12 Shettyhalli Sub Division

Agency : M/S Technical Manager (west), Karnataka Rural Infrastructure Development Limited, No.280, 59th Cross, 17th C Maain Road, 3rd Y Block Rajaji nagara, Bangaluru-560010

Customer's Reference : EE/DD/W.O/545/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/02/2020	17/03/2020	151.82 X 151.89 X 150.95	23059	8.463	548.2	23.8	23.4
2	Drain Side Wall Concrete	M20	18/02/2020	17/03/2020	150.00 X 150.07 X 149.47	22511	8.846	507.7	22.6	
3	Drain Side Wall Concrete	M20	18/02/2020	17/03/2020	150.88 X 149.63 X 150.77	22576	8.693	536.4	23.8	

Note:
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Samples will be disposed after 90 days from the date of issue of test certificate

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಾಜರಾಜೇಶ್ವರಿನಗರ, ಬೆಂಗಳೂರು

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2020-08-18-30** **Date: 08-02-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads Drains at Chikkasandra Village in Ward No 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west), Karnataka Rural Infrastructure Development Limited, No.280, 59th Cross, 17th C Maain Road, 3rd Y Block Rajaji nagara, Bangaluru-560010
Customer's Reference	:	EE/DD/W.O/545/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-02-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	07-02-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2020-08-18-30** **Date: 18-02-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads Drains at Chikkasandra Village in Ward No 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west), Karnataka Rural Infrastructure Development Limited, No.280, 59th Cross, 17th C Maain Road, 3rd Y Block Rajaji nagara, Bangaluru-560010
Customer's Reference	:	EE/DD/W.O/545/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-02-20
Sample Type /Size	:	Precast Cover Slab - 100mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	14/02/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2020-08-18-30**	**Date: 19-02-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads Drains at Chikkasandra Village in Ward No 12 Shettyhalli Sub Division	
Agency	:	M/S Technical Manager (west), Karnataka Rural Infrastructure Development Limited, No.280, 59th Cross, 17th C Maain Road, 3rd Y Block Rajaji nagara, Bangaluru-560010	
Customer's Reference	:	EE/DD/W.O/545/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-02-20	
Sample Type /Size	:	Precast Cover Slab - 250mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	14/02/2020	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.122	31564	240.3	7.6	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.118	31567	240.5	7.6	7.1	8.9

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ಶಿವಾಜಿನಗರ, ಬೆಂಗಳೂರು.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-18-30** **Date: 17/02/2020**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads Drains at Chikkasandra Village in Ward No 12 Shettyhalli Sub Division

Agency : M/S Technical Manager (west), Karnataka Rural Infrastructure Development Limited, No.280, 59th Cross, 17th C Maain Road, 3rd Y Block Rajaji nagara, Bangaluru-560010

Customer's Reference : EE/DD/W.O/545/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/02/2020	17/02/2020	149.88 X 150.13 X 151.06	22502	**8.745**	421.7	18.7	18.7
2	Drain Bottom Slab Concrete	M20	10/02/2020	17/02/2020	150.06 X 151.95 X 149.50	22803	**8.337**	431.5	18.9	
3	Drain Bottom Slab Concrete	M20	10/02/2020	17/02/2020	149.19 X 149.47 X 151.11	22300	**8.119**	408.5	18.3	

Note:

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-18-30** **Date: 09/03/2020**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads Drains at Chikkasandra Village in Ward No 12 Shettyhalli Sub Division

Agency : M/S Technical Manager (west), Karnataka Rural Infrastructure Development Limited, No.280, 59th Cross, 17th C Maain Road, 3rd Y Block Rajaji nagara, Bangaluru-560010

Customer's Reference : EE/DD/W.O/545/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/02/2020	09/03/2020	150.78 X 150.74 X 150.00	22730	**9.064**	540.5	23.8	23.2
2	Drain Bottom Slab Concrete	M20	10/02/2020	09/03/2020	150.16 X 151.91 X 151.19	22810	**8.536**	503.8	22.1	
3	Drain Bottom Slab Concrete	M20	10/02/2020	09/03/2020	149.26 X 151.23 X 151.44	22571	**8.719**	539.0	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-08-18-30** **Date: 25/02/2020**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads Drains at Chikkasandra Village in Ward No 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west), Karnataka Rural Infrastructure Development Limited, No.280, 59th Cross, 17th C Maain Road, 3rd Y Block Rajaji nagara, Bangaluru-560010
Customer's Reference	:	EE/DD/W.O/545/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/02/2020	25/02/2020	150.15 X 150.91 X 151.77	22659	**8.249**	419.2	18.5	18.6
2	Drain Side Wall Concrete	M20	18/02/2020	25/02/2020	151.93 X 151.23 X 150.25	22977	**8.869**	425.4	18.5	
3	Drain Side Wall Concrete	M20	18/02/2020	25/02/2020	149.91 X 151.61 X 149.31	22728	**9.032**	428.9	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-18-30** **Date: 17/03/2020**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads Drains at Chikkasandra Village in Ward No 12 Shettyhalli Sub Division

Agency : M/S Technical Manager (west), Karnataka Rural Infrastructure Development Limited, No.280, 59th Cross, 17th C Maain Road, 3rd Y Block Rajaji nagara, Bangaluru-560010

Customer's Reference : EE/DD/W.O/545/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/02/2020	17/03/2020	151.25 X 149.94 X 150.51	22679	**8.463**	540.7	23.8	23.2
2	Drain Side Wall Concrete	M20	18/02/2020	17/03/2020	150.56 X 149.43 X 151.03	22498	**8.846**	507.6	22.6	
3	Drain Side Wall Concrete	M20	18/02/2020	17/03/2020	151.66 X 150.36 X 150.16	22803	**8.693**	531.6	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-18-30** **Date: 25/02/2020**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads Drains at Chikkasandra Village in Ward No 12 Shettyhalli Sub Division

Agency : M/S Technical Manager (west), Karnataka Rural Infrastructure Development Limited, No.280, 59th Cross, 17th C Maain Road, 3rd Y Block Rajaji nagara, Bangaluru-560010

Customer's Reference : EE/DD/W.O/545/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/02/2020	25/02/2020	150.27 X 151.43 X 150.33	22755	8.249	421.2	18.5	18.3
2	Drain Side Wall Concrete	M20	18/02/2020	25/02/2020	150.79 X 151.95 X 151.36	22911	8.869	413.4	18.0	
3	Drain Side Wall Concrete	M20	18/02/2020	25/02/2020	150.89 X 150.89 X 149.38	22768	9.032	419.9	18.4	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು.

CIVIL Pro Sig. Date.

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****